

TABLE B-2—ASSUMED AVERAGE ENERGY CONTENTS

Fuel type	Average heat content
Bituminous Coal	24 MMBtu/ton.
Subbituminous Coal	18 MMBtu/ton.
Lignite Coal	14 MMBtu/ton.
Residual Oil	6.2 MMBtu/bbl.

APPENDIX C TO PART 72—ACTUAL 1985 YEARLY SO₂ EMISSIONS CALCULATION

The equation used to calculate the yearly SO₂ emissions (SO₂) is as follows:

SO₂ = (coal SO₂ emissions) + (oil SO₂ emissions) (in tons)

If gas is the only fuel, gas emissions are defaulted to 0.

Each fuel type SO₂ emissions is calculated on a yearly basis, using the equation:

fuel SO₂ emissions (in tons) = (yrly wtd. av. fuel sulfur %) × (AP-42 fact.) × (1-scrb. effic. %/100) × (units conver. fact.) × (yearly fuel burned)

For coal, the yearly fuel burned is in tons/yr and the AP-42 factor (which accounts for the ash retention of sulfur in coal), in lbs SO₂ ton coal, is by coal type:

Coal type	AP-42 factor
Bituminous, anthracite	39 lbs/ton
Subbituminous	35
Lignite	30

For oil, the yearly fuel burned is in gal/yr. If it is in bbl/yr, convert using 42 gal/bbl oil. The AP-42 factor (which accounts for the oil density), in lbs SO₂/thousand gal oil, is by oil type:

Oil type	AP-42 factor
Distillate (light)	142 lbs/1,000 gal
Residual (heavy)	157

For all fuel, the units conversion factor is 1 ton/2000 lbs.

APPENDIX D TO PART 72—CALCULATION OF POTENTIAL ELECTRIC OUTPUT CAPACITY

The potential electrical output capacity is calculated from the maximum design heat input from the boiler by the following equation:

$$\frac{\text{max. design heat input}}{3} \times \frac{\times 1 \text{ kw-hr}}{3413 \text{ Btu}} \times \frac{\times 1 \text{ MWe}}{1000 \text{ Kw}}$$

For example:

(1) Assume a boiler with a maximum design heat input capacity of 340 million Btu/hr.

(2) One-third of the maximum design heat input capacity is 113.3 mmBtu/hr. The one-third factor relates to the thermodynamic efficiency of the boiler.

(3) To express this in MWe, the standards conversion of 3413 Btu to 1 kw-hr is used: 113.3×10⁶ Btu/hr÷1 kw-hr / 3413 Btu×1 MWe / 1000 kw=33.2 MWe

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